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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,608	07/23/2004	Kangguo Cheng		4607
29625 75	11/16/2006		EXAM	INER
MCGUIRE WOODS LLP 1750 TYSONS BLVD.			REAMES, MATTHEW L	
SUITE 1800	BLVD.		ART UNIT	PAPER NUMBER
MCLEAN, VA	MCLEAN, VA 22102-4215			
			DATE MAILED: 11/16/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/710,608	CHENG ET AL.
Office Action Summary	Examiner	Art Unit
•	Matthew L. Reames	2891
The MAILING DATE of this communication ap	ppears on the cover sheet wi	th the correspondence address –
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING [I.e. Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC .136(a). In no event, however, may a red d will apply and will expire SIX (6) MON tte, cause the application to become AB	CATION. eply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 29.	September 2006.	
·— ·	is action is non-final.	
3) Since this application is in condition for allow closed in accordance with the practice under	•	·
Disposition of Claims		
4) ⊠ Claim(s) <u>1-41</u> is/are pending in the applicatio 4a) Of the above claim(s) <u>8-12,14-19,21-30 a</u> 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,13,20 and 31</u> is/are rejected. 7) ⊠ Claim(s) <u>2-7</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/	<u>nd 32-41</u> is/are withdrawn fi	rom consideration.
Application Papers	·	
9)☐ The specification is objected to by the Examin	ner.	
10)⊠ The drawing(s) filed on 23 July 2004 is/are: a	a)⊠ accepted or b)⊡ objec	ted to by the Examiner.
Applicant may not request that any objection to the	e drawing(s) be held in abeyan	nce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the corre	·	
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burer * See the attached detailed Office action for a list	nts have been received. nts have been received in A iority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application

Application/Control Number: 10/710,608 Page 2

Art Unit: 2891

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group I in the reply filed on 9/29/2006 is acknowledged.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claim 1,13,20,31 is rejected under 35 U.S.C. 102(b) as being anticipated by Sugawara (US 2001/0003364).
 - a. As to claim 1 and 31, Sugawara teaches a patterned substrate with a strained and relaxed material (see fig. 1 item 1b and 1a respectively). Sugawara further teaches a device in each region (see fig. 1).
 - b. As to claims 13 and 20, Sugawara is silent to the doping of the strained layer. However Sugawara teaches a SiGe layer 6 below the strained layer 7b.
 Sugawara further show a activated source drain region in the material (see e.g. 13b). During the activation process some of the Ge from the SiGe atoms will

inherently autodoped the region 7b above it due to diffusion. Therefore one would interpret layer 7b as being doped with Ge.

Allowable Subject Matter

- 4. Claims 2-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The following is a statement of reasons for the indication of allowable subject matter. Prior Art fails to teach or suggest forming a strained layer on the relaxed layer within the recess while also forming a relaxed material on the substrate.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew L. Reames whose telephone number is (571)272-2408. The examiner can normally be reached on M-Th 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, B. William Baumeister can be reached on (571)272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/710,608

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Art Unit: 2891

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MLR

B. WILLIAM BAUMEISTER

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